

# How to Download & Install SQLite Tools

**Summary:** in this tutorial, you will learn step-by-step how to download and use the SQLite tools on your computer.

## Download SQLite tools

To download SQLite tools, you open the [download page](#) of the SQLite official website.

1. First, go to the <https://www.sqlite.org> website.
2. Second, open the download page <https://www.sqlite.org/download.html>

SQLite provides various tools for working across platforms including Windows, Linux, and Mac. You need to select an appropriate version to download.

For example, to work with SQLite on Windows, you download the command-line shell program as shown in the following screenshot:

### Precompiled Binaries for Windows

<a href="#">sqlite-dll-win32-x86-3290000.zip</a> (474.63 KiB)	32-bit DLL (x86) for SQLite version 3.29.0. (sha1: 00435a36f5e6059287cde2cebb2882669cdba3a5)
<a href="#">sqlite-dll-win64-x64-3290000.zip</a> (788.61 KiB)	64-bit DLL (x64) for SQLite version 3.29.0. (sha1: c88204328d6ee3ff49ca0d58cbbee05243172c3a)




<a href="#">sqlite-tools-win32-x86-3290000.zip</a> (1.71 MiB)	A bundle of command-line tools for managing SQLite database files, including the <a href="#">command-line shell</a> program, the <a href="#">sqldiff.exe</a> program, and the <a href="#">sqlite3_analyzer.exe</a> program. (sha1: f009ff42b8c22886675005e3e57c94d62bca12b3)
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The downloaded file is in the ZIP format.

## Run SQLite tools

Copy the SQLite tools to a directory:

1. First, create a new directory such as C:\sqlite.
2. Second, extract the content of the file downloaded in the previous step to the C:\sqlite directory. You should see three programs in the C:\sqlite directory as shown below:

 sqldiff.exe  
 sqlite3.exe  
 sqlite3\_analyzer.exe

First, open the command line window:



and navigate to the C:\sqlite folder.

```
cd sqlite
```

Second, type `sqlite3` and press enter:

```
sqlite3
```

It'll return the following output:

```
SQLite version 3.29.0 2019-07-10 17:32:03
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite>
```

Third, you can type the `.help` command from the `sqlite>` prompt to see all available commands in `sqlite3`.

```
.help
```

Output:

```
.archive ...      Manage SQL archives: ".archive --help" for details
.auth ON|OFF      Show authorizer callbacks
.backup ?DB? FILE Backup DB (default "main") to FILE
.bail on|off       Stop after hitting an error. Default OFF
.binary on|off     Turn binary output on or off. Default OFF
.cd DIRECTORY     Change the working directory to DIRECTORY
...
```

Fourth, to quit the sqlite> prompt, you use `.quit` command as follows:

```
.quit
```

## Install SQLite GUI tool

The sqlite3 shell is excellent...

However, sometimes, you may want to work with the SQLite databases using an intuitive GUI tool.

There are many GUI tools for managing SQLite databases available ranging from freeware to commercial licenses.

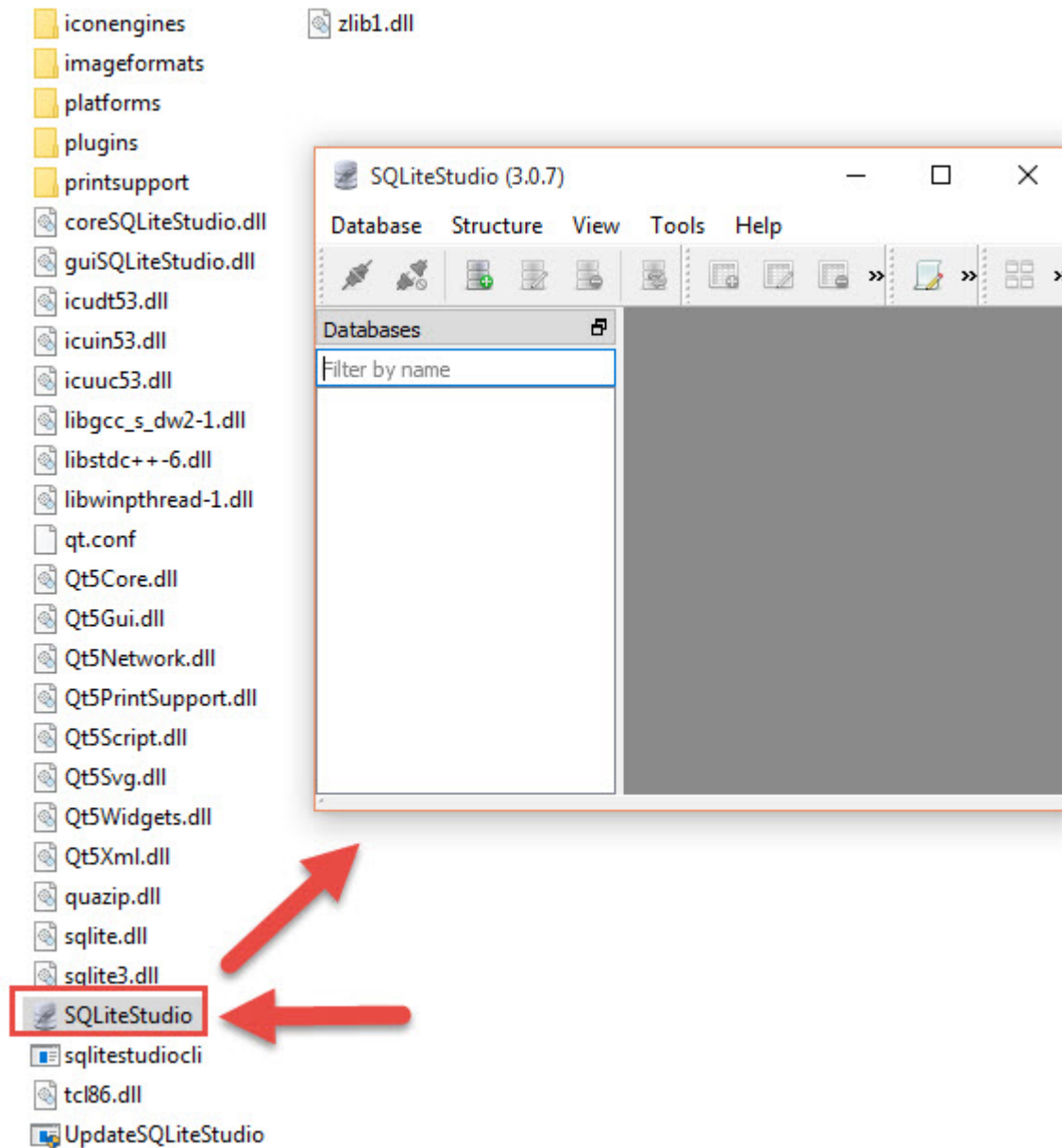
### SQLiteStudio

The SQLiteStudio tool is a free GUI tool for managing SQLite databases. It is free, portable, intuitive, and cross-platform.

SQLite tool also provides some of the most important features to work with SQLite databases such as importing and exporting data in various formats including CSV, XML, and JSON.

You can download the SQLiteStudio installer or its portable version by visiting the [download page](#). Then, you can extract (or install) the download file to a directory e.g., C:\sqlite\gui\ and launch it.

The following picture illustrates how to launch the SQLiteStudio:



## Other SQLite GUI tools

Besides the SQLite Studio, you can use the following free SQLite GUI tools:

- [DBeaver](#) is another free multi-platform database tool. It supports all popular major relational database systems MySQL, PostgreSQL, Oracle, DB2, SQL Server, Sybase.. including SQLite.
- [DB Browser for SQLite](#) – is an open-source tool to manage database files compatible with SQLite.